

Patent Abstracts of Japan

PUBLICATION NUMBER : 61134187
PUBLICATION DATE : 21-06-86

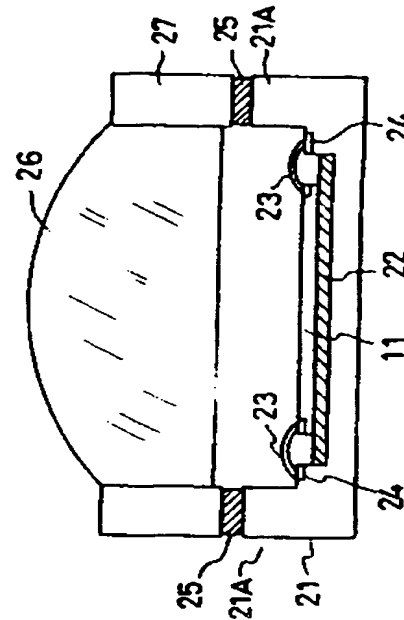
APPLICATION DATE : 04-12-84
APPLICATION NUMBER : 59256147

APPLICANT : TOSHIBA CORP;

INVENTOR : TAKEMURA HIROO;

INT.CL. : H04N 5/335 H01L 27/14

TITLE : SOLID-STATE IMAGE PICKUP DEVICE



ABSTRACT : PURPOSE: To obtain a miniaturized television camera by forming an image pickup lens in one body on the photosensitive surface of a solid-state image pickup element through an air layer.

CONSTITUTION: In order to dispose an image pickup lens 26 before the solid-state image pickup element 11 adhered and fixed at the inner bottom of a package-type substrate 21, a frame 27 is so constructed to be directly fixed on the substrate 21 with the aid of an adhesive 25 or resin. At the side of the photosensitive surface of the solid-state image pickup element 11, the image pickup lens 26 is provided, and its surroundings are held by the frame 27 made of metal or resin. Then one end in the axial direction of the frame 27 and the protrusively installed part of the peripheral frame 21A of the ceramic substrate 21, for instance, are fixed by a fixing means such as the adhesive 25. Thus the solid-state image pickup element 22 does not directly touch outside air, and protection, airtightness and miniaturized structure can be obtained.

COPYRIGHT: (C)1986,JPO&Japio

BEST AVAILABLE COPY